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THE PENDING CLAIMS:

- 1. (Previously Presented) A method for depositing a dielectric film, comprising delivering a gas mixture comprising one or more linear, oxygen-free organosilicon compounds, one or more oxygen-free hydrocarbon compounds comprising one ring and one or two carbon-carbon double bonds in the ring, and one or more oxidizing gases comprising oxygen (O₂) to a substrate surface at deposition conditions sufficient to deposit a dielectric film comprising Si, O, and C on the substrate surface.
- 2. (Original) The method of claim 1, wherein the one or more linear, oxygen-free organosilicon compounds comprises an alkylsilane.
- The method of claim 1, wherein the one or more linear, oxygen-free 3. (Original) organosilicon compounds comprises a member selected from the group consisting of ethylsilane, tetramethylsilane, methylsilane, dimethylsilane, trimethylsilane. 1.2-1.2-disilancethane. disilanomethane, bis(methylsilano)methane, diethylsilane, propylsilane, 2,2-disilanopropane, bis(methylsilano)ethane, hexamethyldisilane, 1,1,2,3,3-1,1,2,2-tetramethyldisilane, vinylmethylsilane, pentamethyltrisilane, 1,3-bis(methylsilano)propane, 1,2-bis(dimethylsilano)ethane, 1,3bis(dimethylsilano)propane, and combinations thereof.
- 4. (Original) The method of claim 1, wherein the ring comprises five or six carbon atoms.
- 5. (Original) The method of claim 4, wherein the ring comprises six carbon atoms.
- 6, (Previously Presented) The method of claim 1, wherein the one or more oxidizing gases further comprises a member selected from the group consisting of ozone, carbon dioxide, carbon monoxide, water, nitrous oxide, 2,3-butanedione, and combinations thereof.

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- The method of claim 6, wherein the one or more 7. (Previously Presented) oxidizing gases consists of carbon dioxide and oxygen (O₂).
- The method of claim 1, further comprising post-8. (Previously Presented) treating the dielectric film.
- The method of claim 1, wherein the one or more linear, oxygen-free 9. (Original) organosilicon compounds comprises trimethylsilane and the one or more oxygen-free hydrocarbon compounds comprises alpha-terpinene.
- The method of claim 9, wherein the one or more (Previously Presented) 10. oxidizing gases consists of carbon dioxide and oxygen (O2).
- A method for depositing a dielectric film, comprising 11. (Previously Presented) delivering a gas mixture comprising one or more linear, oxygen-free organosilicon compounds, one or more oxygen-free hydrocarbon compounds including the structure:

wherein R is selected from the group consisting of linear alkane groups having one to five carbons, and one or more oxidizing gases comprising oxygen (O2) to a substrate surface at deposition conditions sufficient to deposit a dielectric film comprising Si, O, and C on the substrate surface.

The method of claim 11, wherein the one or more oxygen-free 12. (Original) hydrocarbon compounds comprises alpha-terpinene.

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- The method of claim 11, wherein the one or more linear, oxygen-13. (Original) free organosilicon compounds comprises a member selected from the group consisting tetramethylsilane, ethylsilane, trimethylsilane, methylsilane, dimethylsilane, 1,2-1.2-disilancethane, bis(methylsilano)methane, disilanomethane, propylsilane, diethylsilane, bis(methylsilano)ethane, 2.2-disilanopropane, 1,1,2,3,3hexamethyldisilane, vinylmethylsilane, 1.1.2.2-tetramethyldisilane, pentamethyltrisilane, 1,3-bis(methylsilano)propane, 1,2-bis(dimethylsilano)ethane, 1,3bis(dimethylsilano)propane, and combinations thereof
- 14. (Original) The method of claim 11, wherein the linear alkane groups having one to five carbons are selected from the group consisting of methyl, ethyl, propyl, and isopropyl groups.
- 15. (Previously Presented) The method of claim 11, wherein the one or more oxidizing gases further comprises a member selected from the group consisting of ozone, carbon dioxide, carbon monoxide, water, nitrous oxide, 2,3-butanedione, and combinations thereof.
- 16. (Previously Presented) The method of claim 11, further comprising treating the dielectric film with an electron beam.
- 17. (Previously Presented) A method for depositing a dielectric film, comprising: delivering a gas mixture comprising:

one or more linear, oxygen-free organosilicon compounds;

one or more oxygen-free hydrocarbon compounds comprising one ring and one or two carbon-carbon double bonds in the ring;

and one or more oxidizing gases comprising oxygen (O₂) to a substrate surface at deposition conditions sufficient to deposit a dielectric film comprising Si, O, and C on the substrate surface; and

treating the dielectric film with an electron beam.

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- 18. (Original) The method of claim 17, wherein the one or more linear, oxygenfree organosilicon compounds comprises a member selected from the group consisting methylsilane, dimethylsilane, trimethylsilane, tetramethylsilane, ethylsilane, disilanomethane, bis(methylsilano)methane, 1,2-disilanoethane, 1,2bis(methylsilano)ethane, 2,2-disilanopropane. diethylsilane, propylsilane. 1,1,2,2-tetramethyldisilane, vinylmethylsilane, hexamethyldisilane, 1,1,2,3,3pentamethyltrisilane, 1,3-bis(methylsilano)propane, 1,2-bis(dimethylsilano)ethane, 1,3bis(dimethylsilano)propane, and combinations thereof.
- 19. (Original) The method of claim 17, wherein the one or more oxygen-free hydrocarbon compounds comprises alpha-terpinene.
- 20. (Previously Presented) The method of claim 19, wherein the one or more linear, oxygen-free organosilicon compounds comprises trimethylsilane and the one or more oxidizing gases comprises carbon dioxide and oxygen (O₂).